

**CLAIMS**

1. A method for the feed of a mixture of cellulose chips and fluid from a low-pressure system to a high-pressure system during the continuous cooking of chemical cellulose pulp in which the feed between these systems occurs in that a sluice feeder (53") is arranged between these systems for the sluice feed of fluid and cellulose chips and where the sluice feeder (53") is equipped with a first inlet (53a"), a second inlet (53c"), a first outlet (53b") and a second outlet (53d"), and it comprises a rotor with through pockets (1", 2"), which are placed alternately in connection with the high-pressure system and the low-pressure system; where the first pocket (1") which is located at a first position is placed in connection in the low-pressure system with a chip bin (52") or with an impregnation vessel (3") essentially at atmospheric pressure while the pocket (1") is filled with the chips mixture, while at the same time expulsion of the fluid that is present in the pocket (1") takes place via the first outlet (53b"), and where the second pocket (2"), which is located at a second position and is placed via the second inlet (53d") in connection with a transfer line (6b") in the high-pressure system while the chips mixture is fed out from the pocket (2") for transport onwards to a treatment vessel (60") in the high-pressure system with the aid of a fluid that is fed into the pocket (2") through the second inlet (53c"),  
c h a r a c t e r i s e d i n that the second inlet (53c") is connected via at least one withdrawal line (70) to the treatment vessel (60"), from which treatment vessel (60") pressurised fluid is withdrawn, and that the said pressurised fluid is used to expel chips mixture from the pocket (1") when the pocket is in connection with the high-pressure system and where the previously pressurised fluid is withdrawn from the first outlet (53b") of the sluice feeder from the pocket (1") and where a portion ( $REC_{kik}$ ) of the previously pressurised fluid is forwarded directly to a recovery system and where this portion constitutes at least 20% of the total amount ( $REC_{tot}$ ) that is withdrawn for recovery, while being at least  $1 \text{ m}^3/\text{tonne}$  of pulp, with the aim of reducing the total amount of electrical energy required to pump the chips suspension from low pressure to high pressure through the sluice feeder.